## INTERNATIONAL SEARCH REPORT

irternational Application No /JP2004/009370

A. CLASSIFIC	ATION OF SUBJECT	MATTED			/JP20	04/009370
IPC 7	C07K14/505	A61K48/00	C12N5/0	6 C12N15	5/62	
According to Int	ernational Patent Class	ification (IPC) or to bo	lh national classifi	cation and IDC		
D. HELDS SEA	AUCHED					
IPC 7	nentation searched (cla CO7K C12N	ssification system folk	owed by classificat	ion symbols)		
Documentation :	searched other than mi	nimum documentation	to the extent that	such documents are inc	cluded in the fields s	earched
Electronic data b	pase consulted during the	19 international search	/nome of data			_
EPO-Inter	rnal, BIOSIS		, (name of daily be	ise and, where practic	al, search terms used	1)
C. DOCUMENTS	CONSIDERED TO BI	RELEVANT				
	ation of document, with		ropriate, of the rel	evant nassages		·
						Relevant to claim No.
	KUME AKIHIRO ET AL: "In vivo expansion of transduced murine hematopoietic cells with a selective amplifier gene." THE JOURNAL OF GENE MEDICINE. MAR 2003,				1,3,4,8, 10-13	
	vol. 5, no. 175-181, XPO ISSN: 1099-4 the whole do	3, March 200 09039186 98X	03 (2003–0	3), pages		
	HANAZONO Y ET AL: "In vivo selective expansion of gene-modified hematopoietic cells in a nonhuman primate model" GENE THERAPY, vol. 9, no. 16, August 2002 (2002-08), pages 1055-1064, XP002303770 ISSN: 0969-7128 abstract				1-4,8-13	
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<u></u>				<del></del>		
	cuments are listed in the	continuation of box (	<b>)</b> .	Patent family n	nembers are listed in	annex.
document defi considered to	es of cited documents: ning the general state of the of particular releva ant but published on or			cited to understand invention	lished after the interi I not in conflict with the the principle or the	ne application but ory underlying the
document which is cited which is cited citation or oth	th may throw doubts or to establish the publicater special reason (as a cring to an oral disclosu	priority claim(s) or ation date of another	•	document of particu	e step when the doci	e considered to ument is taken alone ulmed invention
document publ later than the	lished prior to the intern priority date claimed	ational filing date but	•8		nation being obvious	other such docu- to a person skilled
ie oi ine actual c	completion of the intern	ational search	T		e international searc	-
	ember 2004			23/11/20		
Eur NL	address of the ISA ropean Patent Office, P - 2280 HV Rijswijk			Authorized officer		
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016				Pilat, D		

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Category °	citation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	
	where appropriate, of the relevant passages	Relevant to claim No.
X	NAGASHIMA TAKEYUKI ET AL: "New selective amplifier genes containing c-Mpl for hematopoietic cell expansion." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 303, no. 1, 28 March 2003 (2003-03-28), pages 170-176, XP002303771 ISSN: 0006-291X abstract	1,3-6, 8-13
X	JIN LIQING ET AL: "In vivo selection using a cell-growth switch" NATURE GENETICS, vol. 26, no. 1, September 2000 (2000-09), pages 64-66, XP002303772 ISSN: 1061-4036 the whole document	1,3-6, 8-13
	KROSL JANA ET AL: "Interleukin-3 (IL-3) inhibits erythropoietin-induced differentiation in Ba/F3 cells via the IL-3 receptor alpha subunit" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 271, no. 44, 1996, pages 27432-27437, XPO02303773 ISSN: 0021-9258 abstract	14,15
	SHIKAMA YAYOI ET AL: "A constitutively activated chimeric cytokine receptor confers factor-independent growth in hematopoietic cell lines" BLOOD, vol. 88, no. 2, 1996, pages 455-464, XPO02303774 ISSN: 0006-4971 abstract	14,15
, X	UEDA KYOJI ET AL: "A novel hematopoietic stem cell gene therapy method without marrow conditioning by intra-bone marrow transplantation combined with selective amplifier gene." BLOOD, vol. 102, no. 11, 16 November 2003 (2003-11-16), pages 200a-201a, XP009039244 & 45TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF HEMATOLOGY; SAN DIEGO, CA, USA; DECEMBER 06-09, 2003 ISSN: 0006-4971 abstract	1-15
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.(Continuation) DOCUMENTS CONSIDERED TO E	BE RELEVANT	-1	04/009370
ategory ° Citation of document, with indication, who	ere appropriate, of the relevant passages		
			Relevant to claim No.
	MEDICINE. JAN 2004,		1-15
UEDA K ET AL: "High Marking after Gene-M Hematopoietic Stem Condition of the Without Marrow Condition of the Whole Cular Therapy, Action of the Whole document when the Whole document	ell Transplantation tioning in Nonhuman CADEMIC PRESS, SAN		1-15
HARA T ET AL: "Expander corrected neutrophils granulomatous disease cotransferring a them selective amplifier granulomatous disease cotransferring and selective amplifier granulomatous d	e mice by cape and a sene."		1-6,8-13

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nternational application No. PCT/JP2004/009370

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
	national Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. V	Claims Nos.: 1-11 because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 1-11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
~ · ·	Claims Nos.: secause they relate to parts of the International Application that do not comply with the prescribed requirements to such in extent that no meaningful international Search can be carried out, specifically:
b	claims Nos.: ecause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
BOX III	bservations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Intern	ational Searching Authority found multiple inventions in this international application, as follows:
1. A	s all required additional search fees were timely paid by the applicant, this International Search Report covers all earchable claims.
2. A	s all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
3. As co	only some of the required additional search fees were timely paid by the applicant, this International Search Report vers only those claims for which fees were paid, specifically claims Nos.:
4. Nd res	required additional search fees were timely paid by the applicant. Consequently, this international Search Report is stricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
	1/210 (continue)